

# NYCOVID-19

## Reflections from the Epicenter

Dafna Bar-Sagi, PhD

1st Virtual Joint Meeting of NCI Board of Scientific Advisors

& National Cancer Advisory Board

April 9, 2020

## We thought we were prepared...







## ...but we were not

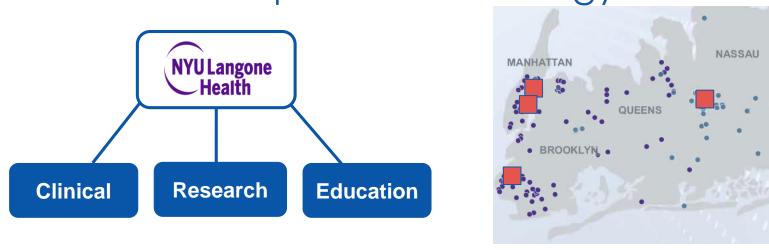


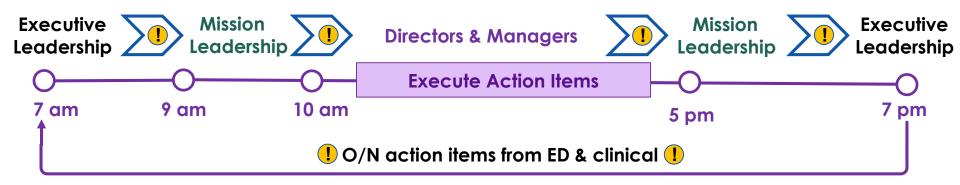






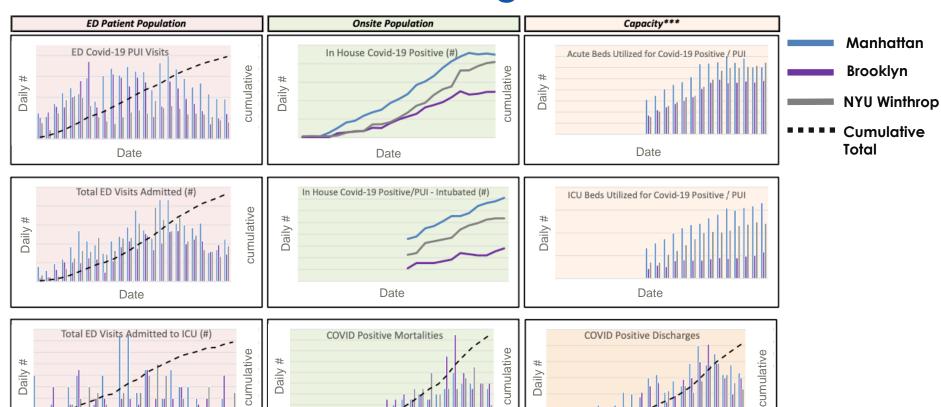
Coordination: Enterprise-wide Strategy





## **Data-driven Decision Making**

Date



Date



Date

## Communication: Multiple Venues, All Constituents

### **E-MAIL NEWSLETTERS**





## "HOTLINE"



24/7 rapid response – 500+ Answers to-date

## **VIRTUAL MEETINGS**



30+ town halls, info sessions, office hours to date

### **RESEARCH INTRANET PORTAL**

#### **COVID-19 Resources on:**

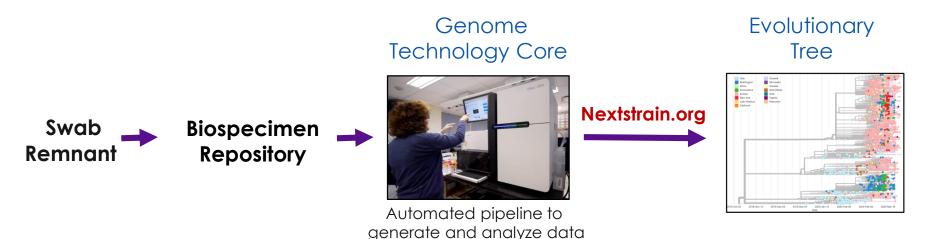
General Policies & Guidelines
Basic and Translational Research

Clinical Research
Funding & Grants
Trainee Questions

~4,000+
unique visitors
to-date



## **Genomic Epidemiology**



- Many chains of transmission mostly Europe

Most New York Coronavirus Cases Came From Europe, Genomes Show

The New Hork Times

- Novel mutations with potential clinical implications
- Transmission in NYC started before 1st confirmed Covid-19 patient on Feb 29



## **Accelerated Launch of Clinical Trials**

>80
proposals
in ~3 weeks

Prioritization & Approval IRB and IND submissions processed in days!

Research specimens collection in ED (universal consent post-hoc)

## **32 Active Clinical Studies**

#### **Investigator-initiated Trials**

- 3 HCQ trials (RCT, PEP\*, PrEP)
- Convalescent plasma\*
- Anticoagulants (prophylactic vs full)
- Clazakizumab (anti IL6, <u>complete</u>)
- Colchicine\*

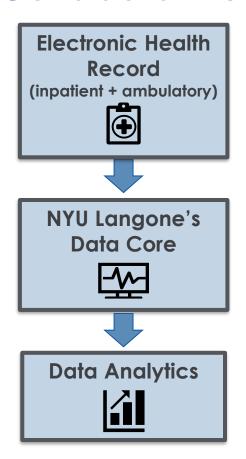
#### **Sponsored Trials**

- Remdisivir (NIH/ NIAID)\*
- Salirumab (Industry)\*

\*multi-site



## Collaborative Data Science



#### **Question:**

Are hypertensive patients on ACE inhibitors (ACEI) or angiotensin receptor blockers (ARB) at increased risk for Covid-19?

### Propensity matched analysis

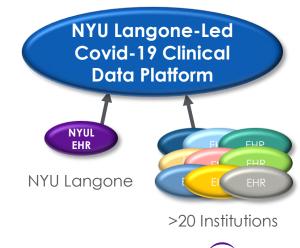
8,000 samples; 2,765 hypertensive patients; NYULH data

#### **Outcomes**

- Neither ACEI nor ARB increase risk of COVID-19+ test
- No relationship with severity of COVID-19 illness (ICU, mechanical ventilation, or death)

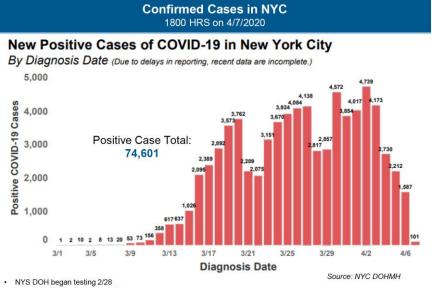
### **Next Steps:**

- Extend to consortium of >20 institutions
- Address additional questions





## Light at the end of the tunnel?



- NYC DOHMH began testing 3/2
- NYC DOHMH began producing a Test Result Summary 3/9
- \* Information about cases over the last week will be incomplete until the laboratories and hospitals report the results for people who were tested, which can take a few days to a week.

## Restarting and avoiding setbacks

- Minimize risk of disease rebound
- Address lost research work/time
- Plan for financial challenges institutionally and societally
- Leverage gains enabled by the crisis





Life after COVID-19

